

Exhibit D

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PATENTED PORTFOLIO

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PORTFOLIO OF PATENTED TECHNOLOGY

United States Patent
Stolarz(10) Patent No.: US 6,240,421
(11) Date of Patent: May 29, 2001**SYSTEM, SOFTWARE AND APPARATUS FOR ORGANIZING, STORING AND RETRIEVING INFORMATION FROM A COMPUTER DATABASE.**Inventor: **Edwin J. Stolarz, 1027 Belair Dr., Webster, IN 46492**

Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

Appl. No. 09/149,734

Filed: Sep. 8, 1998

Art. CI:

CITE IF 1000

U.S. Cl. 707/902, 707/104, 707/105,
345/357, 345/400, 725/139

Field of Search 360/134, 360/135,

707/104, 707/105, 345/357, 475,

395, 725/235, 725/136, 356/304, 362/157

5,207,521 9/1993 Abelson et al. 364/1
5,360,250 1/1994 Abelson et al. 364/1
5,426,500 6/1995 Abelson et al. 364/1
5,406,809 4/1995 Li et al. 364/1
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5,395,652 3/1995 Eaton et al. 364/1
5,395,653 3/1995 Rye 364/1
5,395,654 3/1995 Posny et al. 364/1

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Primary Examiner—Eduard T. Ahern
Assistant Examiner—Aali Y.
(74) Attorney, Agent, or Firm—Michael B. McNeil

(75) ABSTRACT

A Method and System and Apparatus for the organization, storage and retrieval of information from both main databases and from hard copy files. The system uses a 3-dimensional graphical interface that aids the user in visualizing the virtual-three dimensional organization within the invention. Each individual face of the FiloCube®

**U.S. Patent No.
6,240,421**

Stolarz

System, Software and Apparatus for Organizing, Storing and Retrieving Information from a Computer Database.

United States Patent
Lavellee(10) Patent No.: US 6,421,821
(11) Date of Patent: Jul. 16, 2002**FLOW-CHART-BASED PROGRAMMING METHOD AND SYSTEM FOR OBJECT-ORIENTED LANGUAGES**Inventor: **Ronald J. Lavellee, 1720 University Ct., Novato, CA 94945**

Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

Appl. No. 09/265,512

Filed: Mar. 18, 1999

Int. CL¹ G09F 9/48

U.S. Cl. 707/140

Field of Search 707/140, 360/540

Reference Cited

OTHER PUBLICATIONS

Gil et al., Three Dimensional Software Modeling, 19 88(8), pp. 211-217
Becker et al., Program Visualization, 1992 ACM, 402-426*

* cited by examiner

ABSTRACT

A visual programming aid for object-oriented programs provides high level visualization for domain experts of static object-oriented programs to permit understanding the program on a macro level and to permit the domain expert to participate in the program's design. In addition, the invention permits the static object-oriented program to be simulated by simulating the objects in flow charts, each object having a block model. The entire flow chart system represents the flow of control and the flow of time. This simulation can occur either in real time or in fast forward. The invention can be used to either access blocks or execute blocks, or both. In

**U.S. Patent No.
6,421,821**

Lavellee

Flow Chart-Based Programming Method and System for Object-Oriented Languages.

United States Patent
Benjamin et al.(10) Patent No.: US 6,438,533
(11) Date of Patent: Aug. 26, 2002**RELATIONAL DATABASE METHOD FOR ACCESSING INFORMATION USEFUL FOR THE MANUFACTURE OF, TO INTERCONNECT NODES IN, TO REPAIR AND TO MAINTAIN PRODUCT AND SYSTEM UNITS**Inventor: **Scott Jon Benjamin, Lakeville, John Hans Rasmussen, Cottage Grove, both of MN 550**Assignee: **Lockheed Martin Corporation, Bethesda, MD 20817**

Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

Appl. No. 09/274,367

Filed: Mar. 18, 1999

4,521,099 A * 2/1990 Kastlack et al.
4,598,567 A * 6/1991 Baier et al.
4,520,701 B1 * 5/1993 Hales et al.

* cited by examiner

Primary Examiner—Alan M. Cottrell
Assistant Examiner—Carmy Truong
(74) Attorney, Agent, or Firm—P. M. Wagner & W.

(75) ABSTRACT

A process provides automated coherent diagrams for the construction of valid configuration assembly systems, which consist of mechanical, electrical or toxic subsystems or components using relational base software. A relational database software program is used to define the location of subsystems or components within the assembly system, the interconnection information for the subsystems and the interconnection of the subsystems within the assembly.

**U.S. Patent No.
6,438,535**

Benjamin et al.

Relational Database Method for Accessing Information Useful for the Manufacture of, to Interconnect Nodes in, to Repair and to Maintain Product and System Units.

United States Patent		Patent No.	US 6,658,377 B1
Award et al.		Date of Patent:	Dec. 1, 2003

(51) METHOD AND SYSTEM FOR DETERMINING A BASED ON THE ENCODING OF THE INPUT DATA	5,758,242 A	5,759,000	5,759,000
(52) INVENTOR: <i>For Anthony, Michael S.; John J. Schaefer, San Francisco, CA (61) 102 Marion Avenue, San Bruno, (CA) 94066; Jon Sommers, San Francisco, (CA) 94103</i>	5,759,244 A	5,759,000	5,759,000
(57) ASSIGNEE: <i>Perspectives, Inc., San Francisco, CA (60)</i>	5,759,245 A	5,759,000	5,759,000
(70) C17 Notice: <i>Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 3 days.</i>	5,759,246 A	5,759,000	5,759,000
(72) Appl. No.: 09/800,750	5,759,247 A	5,759,000	5,759,000
(73) Filed: Jun. 18, 2000	5,759,248 A	5,759,000	5,759,000
(75) Int. Cl.: G06F 17/00	5,759,249 A	5,759,000	5,759,000
(76) Field of Search: 707/42, 100, 1, 707/42, 707/43, 707/44	5,759,250 A	5,759,000	5,759,000

U.S. Patent No.
6,658,377

Anward et al.

Method and System for Text Analysis Based on the Tagging, Processing, and/or reformatting of the Input Text.

<p>United States Patent Ingram et al.</p> <p>RELATIONAL DATABASE METHOD FOR SEQUENCING INFORMATION USEFUL FOR THE MANUFACTURE OF, AND INTERCONNECT NODES IN, TO REFINE AND TO MAXIMIZE PRODUCT AND SYSTEM UNITS</p> <p>Inventor: Scott Jon Benjamin, Lisleboro, MN (US); John Blane Robinson, College Grove, MN (US)</p> <p>Assignee: Lockheed Martin Corporation, Bethesda, MD (US)</p> <p>Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 50 days.</p> <p>Appl. No.: 08/111,268 Filed: June 25, 1996</p>	<p>(10) Patent No.: US 6,662,175 (11) Date of Patent: Dec. 9, 2003</p> <p>(54) Reference Cited: U.S. PATENT DOCUMENTS</p> <p>5,210,586 A 5,199,349 Jengen 5,025,699 A 5,208,949 Kretsch et al. 4,905,000 A 5,208,950 Kretsch et al. 5,238,711 B1 5,209,100 Fisher et al.</p> <p>Primary Examiner—Michael S. Ahn Assistant Examiner—Candy T. Truong (56) Attorney, Agent, or Firm—Patrick M. Hogan, W. Egt</p> <p>(57) ABSTRACT</p> <p>A process generates automated coherent documentations the construction of variably configured assembly systems, which consist of mechanisms, electrical or mechanical components, and/or software programs and/or software. A relational database software program used to define the location of subassemblies or components within the final assembly or system, defines imperative</p>
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U.S. Patent No.
6,662,179

Benjamin et al.

Relational Database Method for Accessing Information Useful for the Manufacture of, to Interconnect Nodes in, to Repair and to Maintain Product and System Units.

United States Patent
Fraser

(1) Patent No.: **US 6,895,562 B1**
(2) Date of Patent: **May 17, 2006**

**METHOD AND SYSTEM FOR RECEIVING
DISPLAYING AND CONFIRMING REQUEST
TO PERFORM OPERATION ON HOST
COMPUTER**

Inventor: Neil R. Fraser, Mayfieldville, OH (USA)

Assignee: *Carnation Corporation*, King Mill,
OH (USA)

Notice: Subject to one disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(a), by 93 days.

App. No.: **09/986,429**
Filed: **June 8, 2000**

Int. CL: **G06F 19/00**
U.S. CL: **705/160, 705/170, 705/180,**
705/190

Field of Search: **705/160, 705/170, 705/180,**
705/190, 145-150, 170, 200-205

Examiner: **Chen, J.**
Assistant Examiner: **Dillinger, M.**
Attorney, Agent or Firm: **W. C. Goring, Augustin**

15/020,018 R 1/1998 Chen _____ 2005/012
15/020,019 R 1/1998 Dillinger et al. _____ 2005/012
15/020,020 R 1/1998 Muhs _____ 2005/012
15/020,021 R 1/1998 Goring, W. C. _____ 2005/012
15/020,022 R 1/1998 Goring, W. C. _____ 2005/012
15/020,023 R 1/1998 Muhs _____ 2005/012

(Continued)

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Rosenow et al., "Keyless Air Drawing Digital Signatures on Public Key Cryptosystems", *Communication of the ACM* (vol. 37(9)), pp. 1-12.

U.S. Patent No.
6,895,502

Fraser

Method and System for Securely Displaying and Confirming Request to Perform Operation on Host Computer.

United States Patent

Riebe et al.

(10) Patent No.

US 7,200,760 B2

(11) Date of Patent:

Apr. 3, 2007

- (12) **FIELD OF INVENTION**
ENCRYPTING CRITICAL SOFTWARE BASED
TO CONTROL THE OPERATION OF AN
EXECUTABLE SOFTWARE PROGRAM
- (13) **Inventor:** Rainer Riebe, Vancouver
(CA); Brian Hwang, Sunnyvale, CA;
- (15) **Assignee:** Proteksis, Inc., Vancouver, BC, CA
- (16) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 771 days.
- (17) **Appl. No.:** 09/761,299
- (18) **Filed:** Dec. 1, 2000

Prior Publication Date

US 2004-012514 A1 Jul. 1, 2004

(19) **Int. Cl.:**

G06F 21/04

(20) **U.S. Cl.:**

705/394

(21) **Field of Classification Search:**

705/394, 205, 300

705/395, 396, 398

*** cited by examiner**

Primary Examiner—Thomas R. Pense

(70) Attorney, Agent, or Firm—Reynolds, Kohn & Gordon, LLP

A data encryption/description system is provided which

contains an encrypted form of one or more coded data

U.S. Patent No.
7,200,760

Riebe et al.

System for Persistently Encrypting Critical
Software Data to Control the Operation of an
Executable Software Program.

United States Patent

Nye et al.

(10) Patent No.

US 7,302,612 B

(11) Date of Patent:

Nov. 27, 2007

HIGH LEVEL OPERATIONAL SUPPORT**SYSTEM**

- Inventors:** Blaine Nye, Crofton, MD (US); David Sun Hong, Gaithersburg, MD (US)
- Assignee:** TeleCommunication Systems, Inc., Annapolis, MD (US)

Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 500 days.

Appl. No.: 09/420,489

Filing Date: May 8, 2000

Priority Publication Date:

US 2006-0022380 A1 Nov. 6, 2006

Int. Cl.:

G06F 21/04

(21) **Field of Classification Search:**

705/394

705/395, 396, 398

705/399, 400

705/401, 402

705/403, 404

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705/409, 410

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705/501, 502

United States Patent
Jing et al.(16) Patent No.: US 7,730,122
(17) Date of Patent: Jun. 1,**COLLABORATIVE COMMUNICATION****PLATFORMS**Inventor: **Benhard Wang, Sunnyvale, CA (US)**

Le Wang, Sunnyvale, CA (US)

Assignee: **Intel, Inc., San Jose, CA (US)**

Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 1554 days.

ppr. No.: 14978,389

fild: Oct. 26, 2006

Prior Publication Data

US 2008/0095114 A1 May 4, 2008

Int'l Cl.:

H04L 29/04 (2006-01)

Int'l Cl. 769/204; 769/210; 769/220

(16) Patent No.: US 7,730,122
(17) Date of Patent: Jun. 1,

Using America Online—Third Parties, Once Publishing It

* cited by examiner

Primary Examiner—Tania L. Dillinger

Assistant Examiner—Kyoung H. Shin

(74) Attorney, Agent, or Firm—Ward Snow US IP

Law, Joe P. Feng

(57) ABSTRACT

A collaborative communication system is disclosed. A collaborative communication system integrates a set of electronic communication tools to assist the social communication needs for an enterprise, family, small friends. All communications are within the system, leading to one aspect of the collaborative communication system. The system can be used for publishing, integrating news, information, and published pages, group pages, areas or domains. Depending on the prior communications with others may be conducted in any way.

U.S. Patent No.
7,730,129

Wang et al.

Collaborative Communication Platforms.

United States Patent
Benjamin et al.(16) Patent No.: US 7,774,296 B2
(17) Date of Patent: Aug. 16, 2010**RELATIONAL DATABASE METHOD FOR****ACCESSING INFORMATION UNITS FROM****THE MANUFACTURE OF, TO****INTERCONNECT NODES IN, TO REPAIR AND TO MAINTAIN****PRODUCT AND SYSTEM UNITS**(16) Inventor: **David J. Benjamin, 3607 Rock Ln.,****Eduardo, MN 55314, John R. Blum,****Robert J. Cottrell Jr., South College****Grove, MO 64035 USA**

* cited by examiner

Primary Examiner—Tania L. Dillinger

Assistant Examiner—Kyoung H. Shin

(74) Attorney, Agent, or Firm—Ward Snow US IP

Law, Joe P. Feng

(57) ABSTRACT

This patent is subject to a terminal disclaimer.

(16) Appl. No.: 10/446,120

(17) Filed: Oct. 14, 2003

(18) Prior Publication Data

US 2006/0073017 A1 Apr. 20, 2006

* cited by examiner

Primary Examiner—Cary Y. Truong

(74) ABSTRACT

A relational database method for accessing

information useful for the manufacture of, to

interconnect nodes in, to repair and to maintain

product and system units.

U.S. Patent No.
7,774,296

Benjamin et al.

Relational Database Method for Accessing Information Useful for the Manufacture of, to Interconnect Nodes in, to Repair and to Maintain Product and System Units.

United States Patent
Kulas(16) Patent No.: US 7,840,893 I
(17) Date of Patent: Nov. 23, 2010**DISPLAY AND MANIPULATION OF WEB****PAGE-BASED SEARCH RESULTS**Inventor: **Charles J. Kulas, 401 Orinda Ave., San****François, CA 94523 USA**

Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 442 days.

Appl. No.: 11/104,528

Filed: Apr. 24, 2005

Prior Publication Date

US 2006/0202513 A1 Oct. 26, 2006

Int'l Cl. 707/900 (2006-01)

U.S. Cl. 707/234, 707/235, 707/236

Field of Classification Search

707/237, 723, 736, 254, 243, 275, 254, 707/235

Non-application file for complete search history

(57) ABSTRACT

A system for displaying and recording web page

results. Results obtained from a search engine are dis-

played with entry-type fields in some columns. A selection

of each column allows small entries to be input

against the search engine to obtain more specific re-

sults. A search feature offers additional searching

U.S. Patent No.
7,840,893

Kulas

Display and Manipulation of Web Page-Based Search Results.

U.S. Patent No.
7,890,809

Nye et al.

High Level Operational Support System.

United States Patent

Wang et al.

(1) **INVENTOR:** *Yusheng Wang*, Sunnyvale, CA (USA);
Tai Wang, Sunnyvale, CA (USA)

(2) **Assignee:** *Comptelcom LLC*, Las Vegas, NV (USA)

(3) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. §154(a), by 8 days.
 This patent is subject to a terminal disclaimer.

(4) **Appl. No.:** 12/087,181
Filing: Sept. 7, 2008

Related U.S. Application Data

(5) Continuation of application No. 12/706,800, filed on May 29, 2010, in a continuation of application No. 10/970,509, filed on Dec. 28, 2004, now Pat. No. 7,783,250.

(6) **Patent No.:** US 7,895,282 B1
Date of Patent: Feb. 12, 2011

(7) **Inventors Cited:**
 U.S. PATENT DOCUMENTS

5,480,212 9 1/2002 Wissner et al.
 5,927,486 9 1/2000 Gosselin et al.

OTHER PUBLICATIONS

2006. *Learn Designing Adapting the Design*. Boston, vol. 2. www.silabs.com/documents/getdoc.cfm?doc_id=1000 (hereinafter "Silabs' doc").
 Primary Examiner: *Kyung-Jae Shin*
 (74) Attorney, Agent or Firm: *Sun Zheng*

(87) **ABSTRACT**

Technologies for delivering internet over the internet without relying upon a domain name as an initial address can be used to identify a user's location. An identifier associated with the techniques is for a configuration of a communication system or platform, where each of users in the configuration communication platform is assigned an identifier. The identifier is used for defining the internet and/or network address of the user.

U.S. Patent No.
7,895,282

Wang et al.

Internal Electronic Mail System and Method for the Same.

United States Patent
Wang et al.

PATENT NUMBER: US 7,996,464
PATENT DATE: Aug. 9, 2011

INVENTOR(S): Jianhong Wang, Novato, CA 94945; Li Wang, Novato, CA 94945

ASSIGNEE: Comptechnet Ltd., Las Vegas, NV 89106

FIELD OF INVENTION: SYSTEM AND METHOD FOR PUBLISHING IN USER DIRECTORY

ABSTRACT: A system and method for publishing in user directory. The system includes a publishing module, a publishing interface, a publishing database, a publishing server, and a publishing client. The publishing module receives a publishing request from the publishing client, and generates a publishing response. The publishing interface sends the publishing response to the publishing client. The publishing database stores a publishing record. The publishing server stores a publishing record. The publishing client sends a publishing request to the publishing server, and receives a publishing response from the publishing server.

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1995, Siemens, "Administrating the Director Service System," Siemens Product Information, 1995, 1995, published by Siemens Information, administrative from network connection and the device and document PDF file format.

"Storage Management User Guide for Linux Version," published by Hitachi Data Systems, 2007.

"Small Cell: An Intelligent Approach for Optimizing 3G Handoff" by Hui Tang, Zhiqiang Chen, and Xudong Zhou (2007) *Journal of Wireless Communications*, 2007.

CITED BY EXAMINER:

Primary Examiner: Kyung Il Shin
(75) Attorney, Agent or Firm: Jim Zhang

U.S. Patent No.
7,996,464

Wang et al.

Method and System for Providing a User Directory.

United States Patent		(in) Patent No.: US 7,996,469 B
		(in) Date of Patent: Aug. 9, 2011
METHOD AND SYSTEM FOR SHARING FILES OVER NETWORKS		
(in) Reference Cited		
U.S. PATENT DOCUMENTS		
1. Inventor: Jinglong Wang, Sunnyvale, CA (US) Ex-Wang, Sunnyvale, CA (US)		
2. Assignee: Compliances LLC, Las Vegas, NV (US)		
3. Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.		
4. Appl. No.: 10/862,393		
5. Filed: Mar. 26, 2004		
Related U.S. Application Data		
7. Continuation of application No. 12/798,025, filed on May 29, 2008, which is a continuation of application No. 10/770,308, filed on Oct. 20, 2004, now Pat. No. 7,996,469.		
8. Information concerning prior publication(s) in the field of the invention		
9. Field of Classification Search		
10. Description of the Prior Art		
11. Field of Classification Search		
12. Description of the Invention		
13. Abstract		
14. Drawings		
15. Claims		
16. Remarks		
17. References Cited		
18. Field of Classification Search		
19. Description of the Prior Art		
20. Field of Classification Search		
21. Description of the Invention		
22. Abstract		
23. Drawings		
24. Remarks		
25. References Cited		
26. Field of Classification Search		
27. Description of the Prior Art		
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29. Description of the Invention		
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34. Field of Classification Search		
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41. References Cited		
42. Field of Classification Search		
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48. Remarks		
49. References Cited		
50. Field of Classification Search		
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53. Description of the Invention		
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55. Drawings		
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57. References Cited		
58. Field of Classification Search		
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69. Description of the Invention		
70. Abstract		
71. Drawings		
72. Remarks		
73. References Cited		
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U.S. Patent No.
8,285,788

Wang et al.

Techniques for Sharing Files Within a Collaborative Communication System.

U.S. Patent No.
8,554,838

Wang et al.

Collaborative Communication Platforms.

U.S. Patent No.
8,819,120

Wang et al.

Method and System for Group Communications

United States Patent		(a) Patent No.: US 9,984,063 I
		(b) Date of Patent: Mar. 17, 2018
1. TECHNIQUES FOR PROVIDING A USER DIRECTORY FOR COMMUNICATIONS WITHIN A COMMUNICATION SYSTEM		
1. Inventor: Jianlong Wang, Sunnyvale, CA (US); Kai Wang, Sunnyvale, CA (US)		
2. Assignee: Black Micro Solutions LLC, Denver, CO (US)		
3. Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 174(b) by 16 days.		
4. Appl. No.: 15/206,448		
5. Filed: Aug. 6, 2013		
Related U.S. Application Data		
6. Continuation of application No. 13/802,105, filed on May 20, 2011, now Pat. No. 9,590,403, which is a continuation of application No. 12/790,034, filed on May 20, 2008, now Pat. No. 8,736,125, which is a continuation of application No. 09/936,406, filed on		
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7. 2014, Texas Devices, Advertise the Device System, vol. 2012, published by BRS Corporation, downloadable from website www.brssoft.com/texas-device-system/ (2 pages).		
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U.S. Patent No. 8,984,063

Wang et al.

Techniques for Providing a User Directory for Communication Within a Communication System.

United States Patent		(a) Patent No.: US 9,396,456 B1
		(b) Date of Patent: Jul. 19, 2016
1. METHOD AND SYSTEM FOR FORMING GROUPS IN COLLABORATIVE COMMUNICATION SYSTEM		
1. Inventor: Jianlong Wang, Sunnyvale, CA (US); Kai Wang, Sunnyvale, CA (US)		
2. Assignee: KAI & JIANLONG LEISURE ELIGIBILITY CONFERENCE, Denver, CO (US)		
3. Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 174(b) by 16 days.		
4. Appl. No.: 14/883,286		
5. Filed: Feb. 24, 2014		
Related U.S. Application Data		
6. Continuation of application No. 13/802,105, filed on May 20, 2011, now Pat. No. 9,590,403, which is a continuation of application No. 09/936,406 (Pat. No. 7,798,125).		
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7. 2014, Texas Devices, Advertise the Device System, vol. 2, published by BRS Corporation, downloadable from website www.brssoft.com/texas-device-system/ (2 pages).		
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U.S. Patent No. 9,396,456

Wang et al.

Method and System for Forming Groups in Collaborative Communication System.

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